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EDUCATION:

1984 B. Sc. (Geology) Michigan State University
1991 Ph. D. (Earth Sciences) University of California Santa Cruz
1992-1994 Postdoctoral Researcher, U.S. Geological Survey, Anchorage, Alaska

PROFESSIONAL EXPERIENCE:

1994-present Research Geologist, U.S. Geological Survey, Anchorage, Alaska
1992-1994 Post-doctoral researcher, U.S. Geological Survey, Anchorage, Alaska
1992 Geologist, U.S. Geological Survey, Menlo Park, California
1985 Geologist, Lancer Energy Corporation, Wilmore, Kentucky

CURRENT RESEARCH

Earthquake hazards

- Denali fault paleoseismology and slip rate
- Identification and characterization of seismic sources across southern Alaska

Submarine landslides

- Characterization and description of submarine landslides in coastal fjords of southern Alaska generated by the 1964 M9.2 earthquake

Framework geology

- Currently mapping the Tyonek 1:250K-scale quadrangle
- Exhumation of the western Alaska Range
- Susitna basin subsurface geology

SERVICE

- Member: State of Alaska Geologic Mapping Advisory Board
- Member, Working Group: Advance National Seismic System
- Project chief: USGS Alaska Earthquake Hazards Project
- Member: USGS Geologic Discipline Science Strategy Team (to come up with 10 yr plan for USGS)
- Co-convenor, AGU Chapman Conference (2006): Active Tectonics and Seismic Potential of Alaska
- Former commissioner, Municipality of Anchorage, Geotechnical Advisory Commission
- Reviewer of numerous papers and proposals
- Spokesman for USGS Earthquake Hazards program in Alaska
- Numerous TV appearances: Discovery Channel, History Channel, Weather Channel, Dateline, local news, etc.
- Author: Next Big Earthquake (2004) – earthquake preparedness pamphlet. Most used earthquake preparedness pamphlet used in Alaska.

SOME RECENT PUBLICATIONS

Haeussler, P.J., and Saltus, R.W., 2011, Location and Extent of Tertiary Structures in Cook Inlet Basin, Alaska, and Mantle Dynamics that Focus deformation and Subsidence, in Dumoulin, J.A., and Galloway, J.P., eds., Studies by the U.S. Geological Survey in Alaska 2008–2009: U.S. Geological Survey Professional Paper 1776–D, p. 26.

- Benowitz, J.A., Layer, P.W., Armstrong, P., Perry, S.E., Haeussler, P.J., Fitzgerald, P.G., VanLaningham, S., 2011, Spatial variations in focused exhumation along a continental-scale strike-slip fault: The Denali fault of the eastern Alaska Range, *Geosphere*, v. 7, no. 2, p. 1–13.
- Haeussler, P.J., and Waythomas, C.F., 2011, Review of the origin of the Braid Scarp near the Pebble prospect, southwestern Alaska: U.S. Geological Survey Open-File Report 2011-1028, 14 p. <http://pubs.usgs.gov/of/2011/1028/>
- Ryan, H.F., Lee, H.J., Haeussler, P.J., Alexander, C.R., and Kayen, R.E., 2010, Historic and paleo-submarine landslide deposits imaged beneath Port Valdez, Alaska: implications for tsunami generation in a glacial fjord: in *Submarine mass movements and their consequences: Advances in natural and technological hazards research*, v. 28, II, p. 411-421, DOI: 10.1007/978-90-481-3071-9_34
- Karl, S.M., Layer, P.W., Harris, A.G., Haeussler, P.J., and Murchey, B.L., 2010, The Cannery Formation--Devonian to Early Permian arc-marginal deposits within the Alexander Terrane, Southeastern Alaska, Dumoulin, J.A., and Galloway, J.P., eds., *Studies by the U.S. Geological Survey in Alaska, 2008-2009: U.S. Geological Survey Professional Paper 1776-B*, 45 p. <http://pubs.usgs.gov/pp/1776/b/>
- Chapman, J.B., Haeussler, P.J., and Pavlis, T.L., 2009, Quaternary uplift history of Wingham Island, south-central Alaska, in Haeussler, P.J., and Galloway, J.P., eds., *Studies by the U.S. Geological Survey in Alaska, 2007: U.S. Geological Survey Professional Paper 1760-B*, 13 p.
- Haeussler, Peter J., 2009, Surface rupture map of the 2002 M7.9 Denali Fault earthquake, Alaska: digital data: U.S. Geological Survey Data Series, Report: DS-0422, 9 pp., 1 sheet.
- Ryan, H.F., Lee, H.J., Haeussler, P.J., Alexander, C.R., and Kayen, R.E., 2009, Historic and paleo-submarine landslide deposits imaged beneath Port Valdez, Alaska: implications for tsunami generation in a glacial fjord, in Mosher, D.C. et al. editors, *Submarine mass movements and their consequences: Advances in natural and technological hazards research*, v. 28, p. 411-421
- Ayuso, Robert A., Haeussler, Peter J., Bradley, Dwight C., Farris, David W., Foley, Nora K., and Wandless, Gregory A., 2009, The role of ridge subduction in determining the geochemistry and Nd-Sr-Pb isotopic evolution of the Kodiak batholith in southern Alaska: *Tectonophysics*, v. 464, p. 137-163.
- Suleimani, E., Hansen, R., and Haeussler, Peter J., 2009, Numerical study of tsunami generated by multiple submarine slope failures in Resurrection Bay, Alaska, during the Mw9.2 1964 earthquake: *Pure and Applied Geophysics*, v. 166, p. 131-152.
- Haeussler, P. J., 2008, An overview of the neotectonics of interior Alaska: Far-field deformation from the Yakutat microplate collision, in *Active Tectonics and Seismic Potential of Alaska*, Geophysical Monograph Series, edited by J.T. Freymueller, P.J. Haeussler, R. Wesson, and G. Ekstrom, AGU Monograph 179, Washington, D.C., p. 83-108.
- Haeussler, P.J., O'Sullivan, P., Berger, A.L., and Spotila, J.A., 2008, Neogene exhumation of the Tordrillo Mountains, Alaska, and correlations with Denali (Mt. McKinley), in *Active Tectonics and Seismic Potential of Alaska*, Geophysical Monograph Series, edited by J.T. Freymueller, P.J. Haeussler, R. Wesson, and G. Ekstrom, AGU Monograph 179, Washington, D.C., p. 269-285.
- Freymueller, J.T., Haeussler, P.J., Wesson, R.L., and Ekstrom, G., 2008, Preface, *Active Tectonics and Seismic Potential of Alaska*, Geophysical Monograph Series, edited by J.T. Freymueller, P.J. Haeussler, R. Wesson, and G. Ekstrom, AGU Monograph 179, Washington, D.C., 431 pp
- Labay, Keith A., and Haeussler, Peter J., 2008, Combined high-resolution LIDAR topography and multibeam bathymetry for upper Resurrection Bay, Seward, Alaska: U.S. Geological Survey Data Series 374, <http://pubs.usgs.gov/ds/374/>
- Haeussler, P.J., Lee, H.J., Ryan, H.F., Labay, K., Kayen, R.E., Hampton, M.A., and Suleimani, E., 2007, Submarine slope failures near Seward, Alaska, during the M9.2 1964 earthquake: in, Lykousis, V., Sakellariou, D., and Locat, J., eds., *Submarine mass movements and their consequences*, Springer, Netherlands, p. 269-278, DOI: 10.1007/978-1-4020-6512-5_28
- Lee, H.J., Ryan, H.F., Haeussler, P.J., Kayen, R.E., Hampton, M.A., Locat, J., Suleimani, E., and Alexander, C.R., 2007, Reassessment of seismically induced, tsunamigenic submarine slope failures in Port Valdez, Alaska, USA: in, Lykousis, V., Sakellariou, D., and Locat, J., eds., *Submarine mass movements and their consequences*, Springer, Netherlands, p. 357-365, DOI: 10.1007/978-1-4020-6512-5_37.
- Willis, Julie B., Haeussler, P.J., Bruhn, Ronald L., and Willis, Grant C., 2007, Holocene slip rate for the western segment of the Castle Mountain Fault, Alaska: *Bulletin of the Seismological Society of America*: v. 97, n. 3, p. 1019-1024, DOI: 10.1785/0120060109
- Matmon, A., Schwartz, D.P., Haeussler, P.J., Finkel, R., Lienkamper, J.J., Stenner, H.D., and Dawson, T.E., 2006, Denali fault slip rates and Holocene-late Pleistocene kinematics of central Alaska: *Geology*, v. 34, p. 645-644.

- Bruhn, R. L., and Haeussler, P.J., 2006, Deformation driven by subduction and microplate collision: geodynamics of Cook Inlet basin, Alaska: Geological Society of America Bulletin, v. 118, no 3/4, p. 289-303.
- Haeussler, P.J., and Saltus, R.W., 2005, 26 km of offset on the Lake Clark Fault since late Eocene time: in, Haeussler, P.J., and Galloway, J.P., eds., Studies by the U.S. Geological Survey in Alaska, 2004: U.S. Geological Survey Professional Paper 1709-A, p.1-4.
- Haeussler, P.J., Gehrels, G.E., and Karl, S.M., 2006, Constraints on the age and provenance of the Chugach accretionary complex from detrital zircons in the Sitka Graywacke near Sitka, Alaska. in, Haeussler, P.J., and Galloway, J.P., eds., Studies by the U.S. Geological Survey in Alaska, 2004: U.S. Geological Survey Professional Paper 1709-F, p.1-24.
- Haeussler, P.J., 2005, What made Mt. McKinley so tall? Structural geology of the high peaks of the Alaska Range: Alaska Geology, v. 35, no. 8, p. 1.
- Haeussler, P.J., Schwartz, D.P., Dawson, T.E., Stenner, H.D., Lienkaemper, J.J., Sherrod, B., Cinti, F.R., Montone, P., Craw, P., Crone, A.J., and Personius, S.F., 2004, Surface rupture and slip distribution of the Denali and Totschunda faults in the 3 November 2002 M7.9 earthquake, Alaska: Bulletin of the Seismological Society of America, v. 94, no. 6B, p. S23-S52.
- Crone, Anthony J., Personius, Stephen F., Craw, Patricia A., Haeussler, P.J., and Staft, Lauren A., 2004, The Susitna Glacier thrust fault: characteristics of surface ruptures on the fault that initiated the 2002 Denali fault earthquake: Bulletin of the Seismological Society of America, v. 94, no. 6B, p. S5-S22.
- Doser, D.I., Ratchkovski, N.A., Haeussler P.J., and Saltus, R., 2004, Changes in crustal seismic deformation rates associated with the 1964 Great Alaska Earthquake: Bulletin of the Seismological Society of America, v. 94, p. 320-325.
- Eberhart-Phillips, D., Haeussler, P.J., Freymueller, J. T. , Frankel, A. D. , Rubin, C. M., Craw, P., Ratchkovski, N. A., Anderson, G., Carver, G. A. , Crone, A. J., Dawson, T. E., Fletcher, H., Hansen, R., Harp, E.L., Harris, R.A., Hill, D.P., Hreinsdóttir, S., Jibson, R.W., Jones, L.M., Kayen, R. Keefer, D.K., Larsen, C.F., Moran, S.C., Personius, S.F., Plafker, G., Sherrod, B., Sieh, K., Sitar, N., and Wallace, W.K., 2003, The 2002 Denali Fault Earthquake, Alaska: A Large Magnitude, Slip-Partitioned Event, Science, v. 300, p. 113-111.
- Haeussler, P.J., Bradley, D.C., Wells, R.E., and Miller, Marti, 2003, Life and death of the Resurrection plate: evidence for its existence and subduction in the NE Pacific in Paleocene-Eocene time: G.S.A. Bulletin, v. 115, p. 867-880.
- Haeussler, P.J., Best, Timothy C., and Waythomas, Christopher F., 2002, Paleoseismology at high latitudes: seismic disturbance of late Quaternary deposits along the Castle Mountain fault near Houston, Alaska: Geological Society of America Bulletin, v. 114, p. 1296-1310, 1 plate.
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